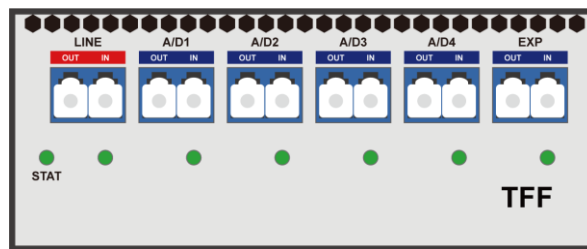


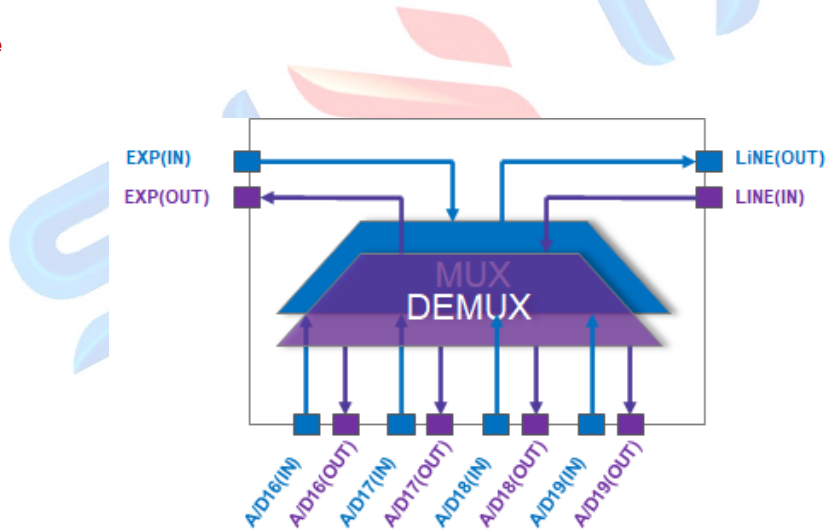
## 4 Channel MUX DEMUX Card: TFF

The 4-channel MUX / DEMUX card (TFF) launched by Sintai Communication is specially designed for DWDM network applications with multiple wavelengths. It can multiplex different wavelengths of optical onto one optical fiber or separate multiple optical channels multiplexed on the same optical fiber by wavelength. Based on thin film filter (TFF) technology, it works on ITU grid with 100GHz channel spacing. DWDM wavelength range is 1528nm to 1568nm, and ITU channel wavelength is optional. It has a series of advantages such as low insertion loss and high channel isolation.

### Product view



### Function structure



### Application case

- It is applicable to 4-channel DWDM optical signal MUX and DEMUX

## Product specification

4-channel MUX DEMUX card	
<b>Function</b>	Support multiplexing and demultiplexing of 4 DWDM optical signals
<b>Slot number</b>	1 slot
<b>Chanel number</b>	4λ@100 GHz (191.4 THz~196.1 THz, model table as below)
<b>Insertion loss</b>	<ul style="list-style-type: none"> <li>• ≤3 dB (EXP &lt;-&gt; LINE )</li> <li>• ≤2 dB (A/D &lt;-&gt; LINE )</li> </ul>
<b>3dB spectral width</b>	>75dB
<b>Adjacent channels isolation</b>	>25dB
<b>Non-adjacent channels isolation</b>	>35dB
<b>Power monitoring</b>	<ul style="list-style-type: none"> <li>• Support 4 DWDM channels IN direction optical power monitoring</li> <li>• Support line side IN direction and expansion port IN direction power monitoring</li> <li>• Support the VOA adjustment of optical power of IN direction of the pass-through port to realize the optical power balance between the pass-through wave and the Add wavelength</li> </ul>
<b>Indicator light</b>	Support DWDM channel IN port, line side IN port and pass-through IN port optical power status indicator
<b>Extended function</b>	Support extended cascading, and use exp port for docking during cascading

## Model Table

Card model	Port	Center frequency (THz)
TFF5659	A56/D56~A59/D59	195.60~195.90
TFF5255	A52/D52~A55/D55	195.20~195.50
TFF4750	A47/D47~A50/D50	194.70~195.00
TFF4346	A43/D43~A46/D46	194.30~194.60
TFF3841	A38/D38~A41/D41	193.80~194.10
TFF3437	A34/D34~A37/D37	193.40~193.70
TFF2932	A29/D29~A32/D32	192.90~193.20
TFF2528	A25/D25~A28/D28	192.50~192.80
TFF2023	A20/D20~A23/D23	192.00~192.30
TFF1619	A16/D16~A19/D19	191.60~191.90